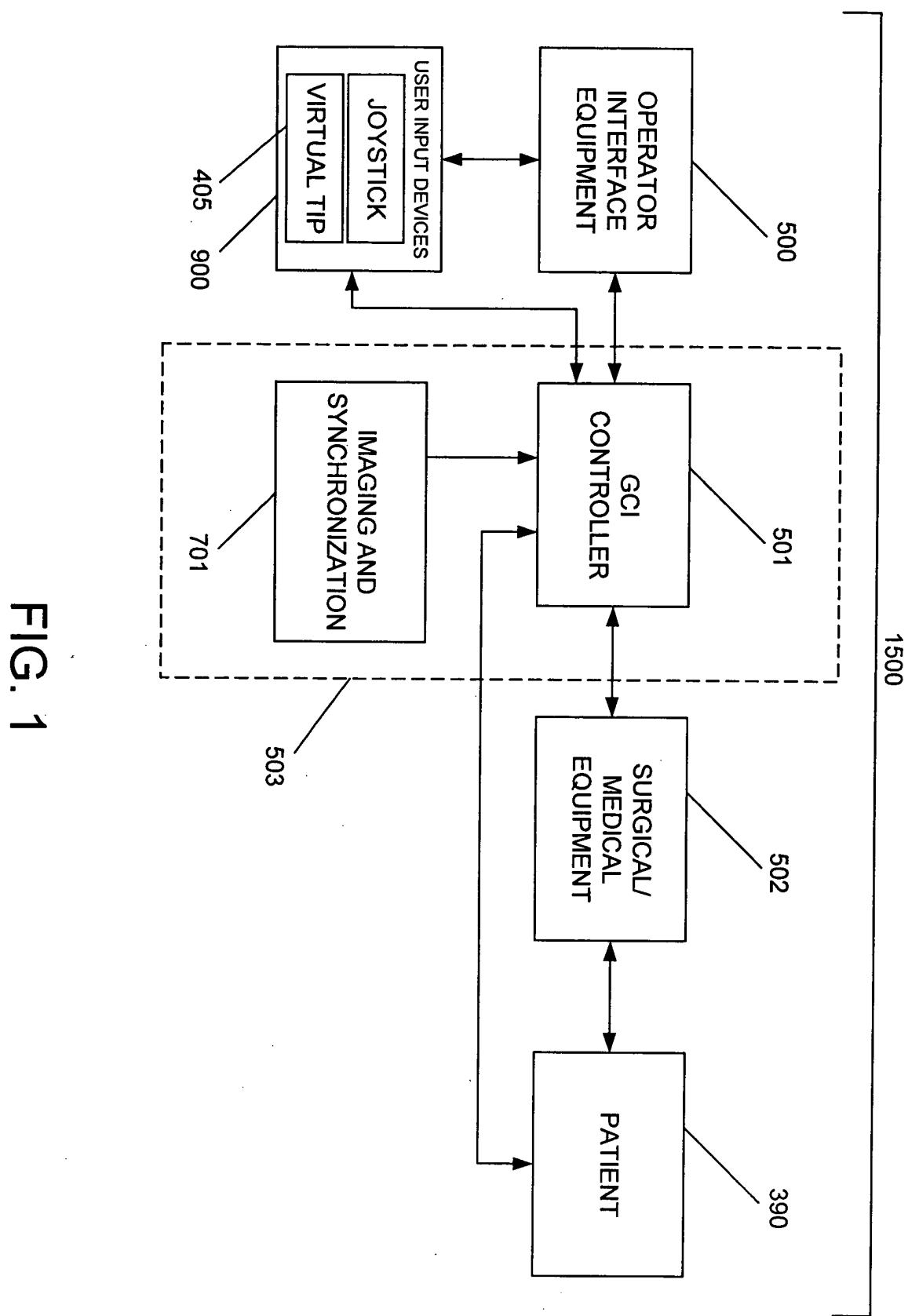
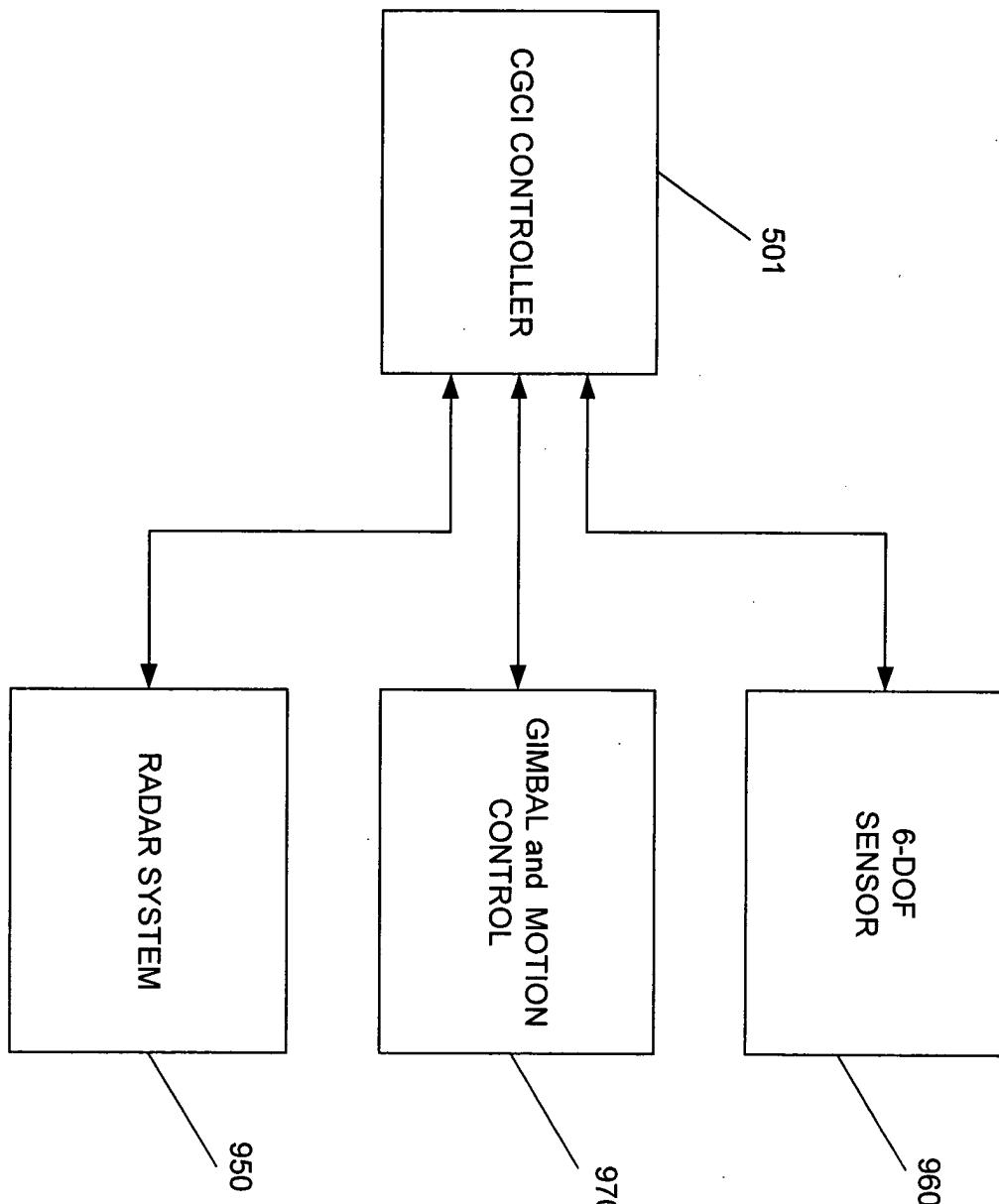


**SYSTEM AND METHOD FOR RADAR-ASSISTED CATHETER  
GUIDANCE AND CONTROL**  
Yehoshua Shachar  
Appl. No.: Unknown      Atty Docket: MNETEC.003A



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FIG. 1A



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FIG. 2

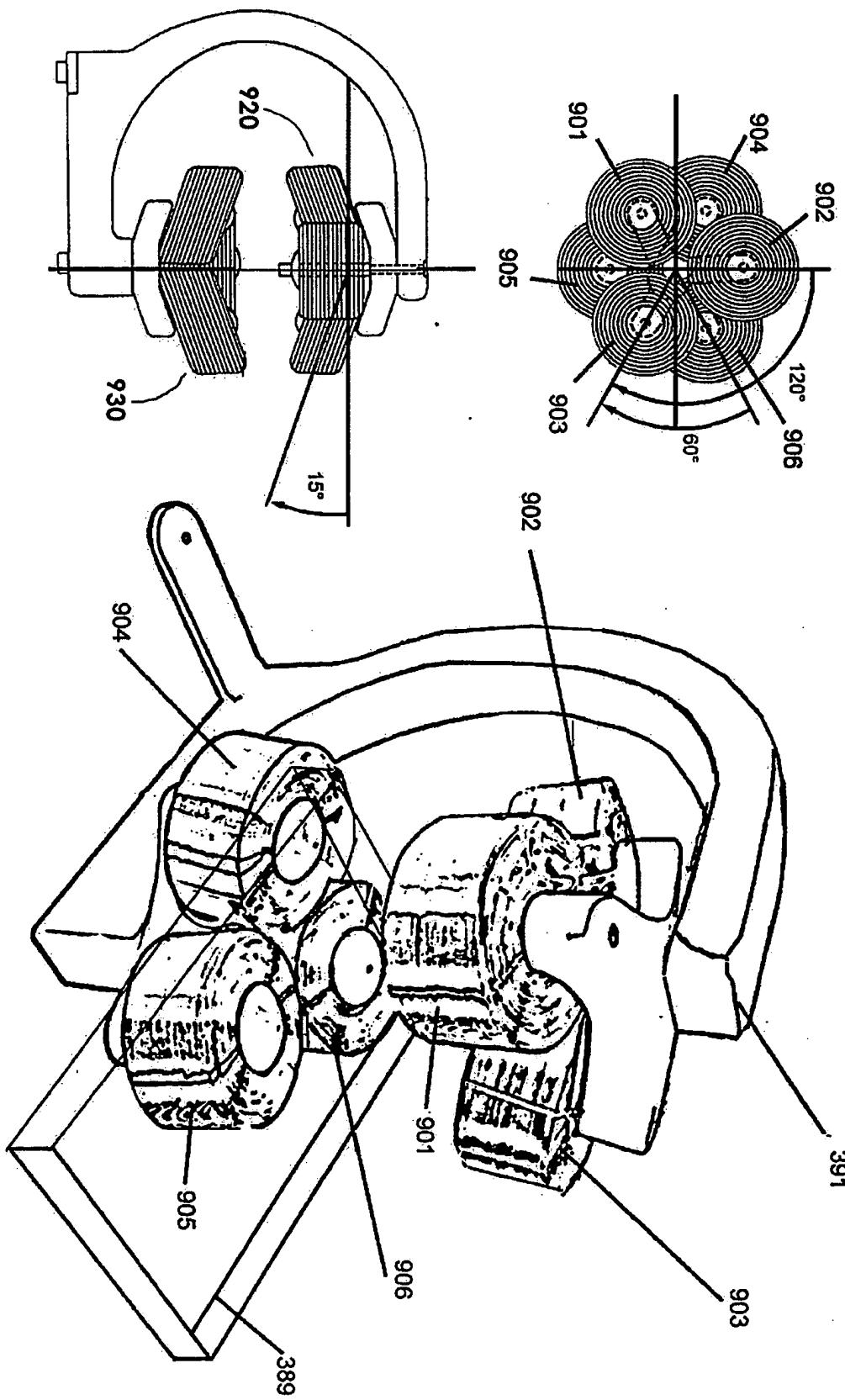
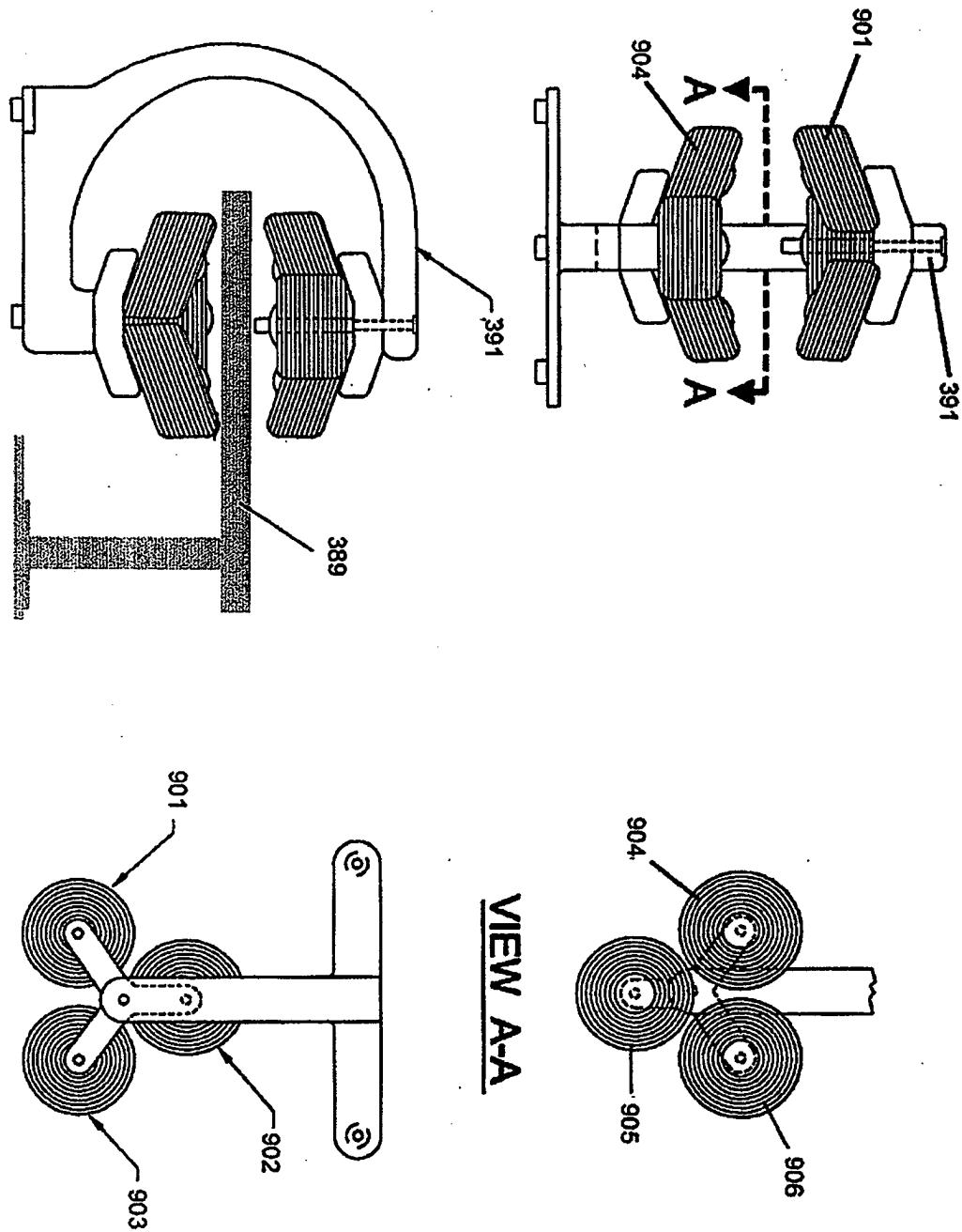


FIG. 2A

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FIG. 2B



SYSTEM AND METHOD FOR RADAR-ASSISTED CATHETER  
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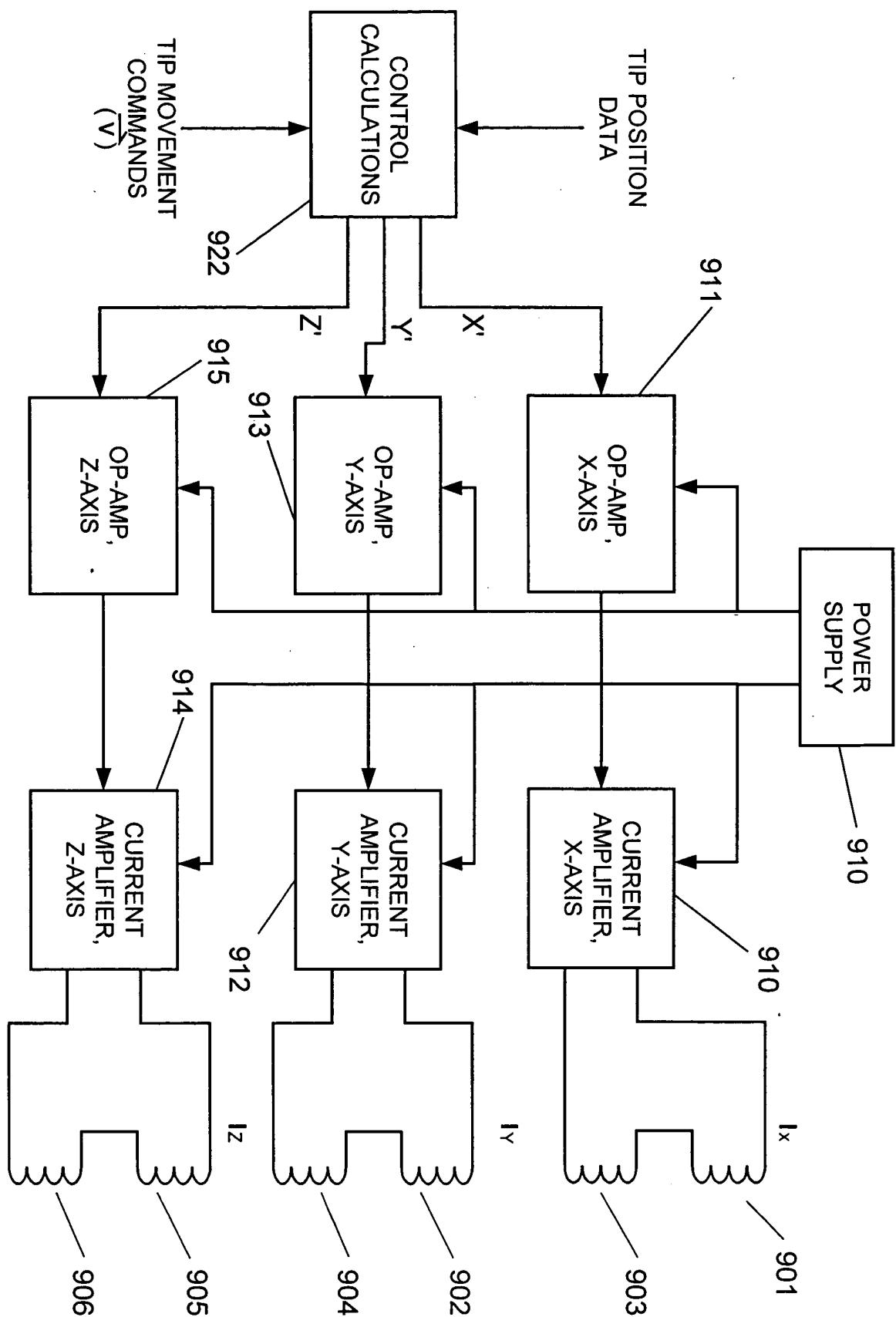


Fig. 2C

SYSTEM AND METHOD FOR RADAR-ASSISTED CATHETER  
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$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} R_{11} R_{12} R_{13} \\ R_{21} R_{22} R_{23} \\ R_{31} R_{32} R_{33} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix}$$

FIG. 2F

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} R_{11} R_{12} R_{13} \\ R_{21} R_{22} R_{23} \\ R_{31} R_{32} R_{33} \end{bmatrix} \begin{bmatrix} C_{11} C_{12} C_{13} \\ C_{21} C_{22} C_{23} \\ C_{31} C_{32} C_{33} \end{bmatrix} \begin{bmatrix} V_{lx} \\ V_{ly} \\ V_{lz} \end{bmatrix}$$

FIG. 2G

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} V_{lx} \\ V_{ly} \\ V_{lz} \end{bmatrix}$$

FIG. 2D

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} C_{11} C_{12} C_{13} \\ C_{21} C_{22} C_{23} \\ C_{31} C_{32} C_{33} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix}$$

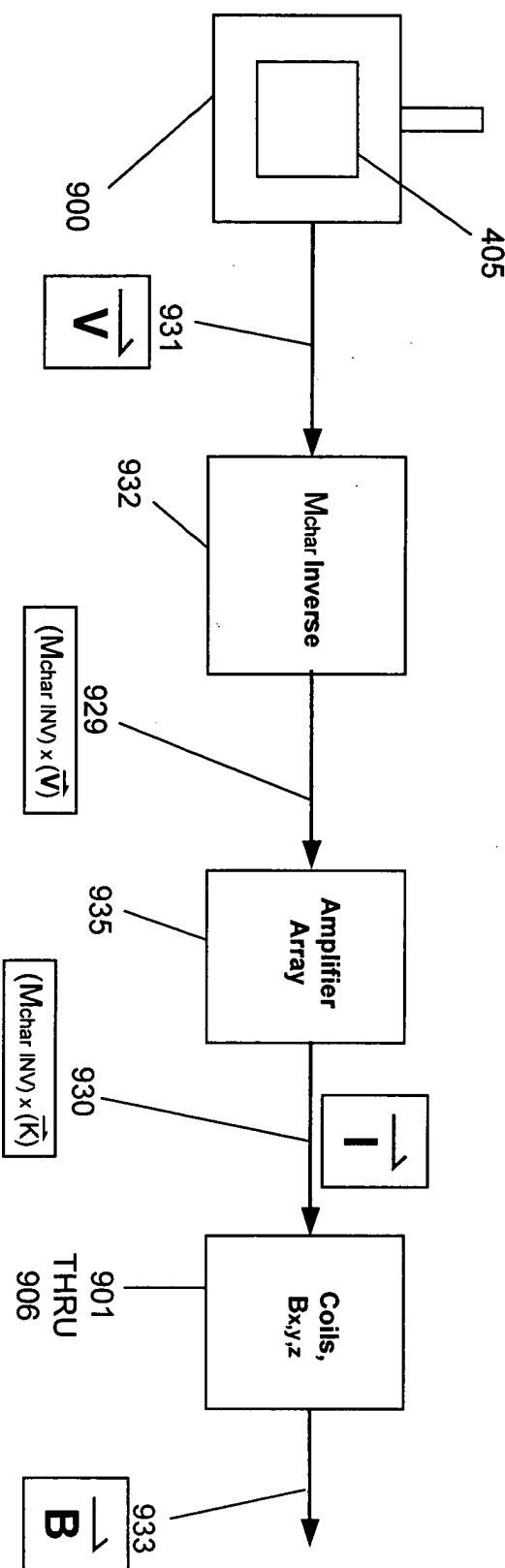
FIG. 2E

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Fig. 2H



SYSTEM AND METHOD FOR RADAR-ASSISTED CATHETER  
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FIG. 2J

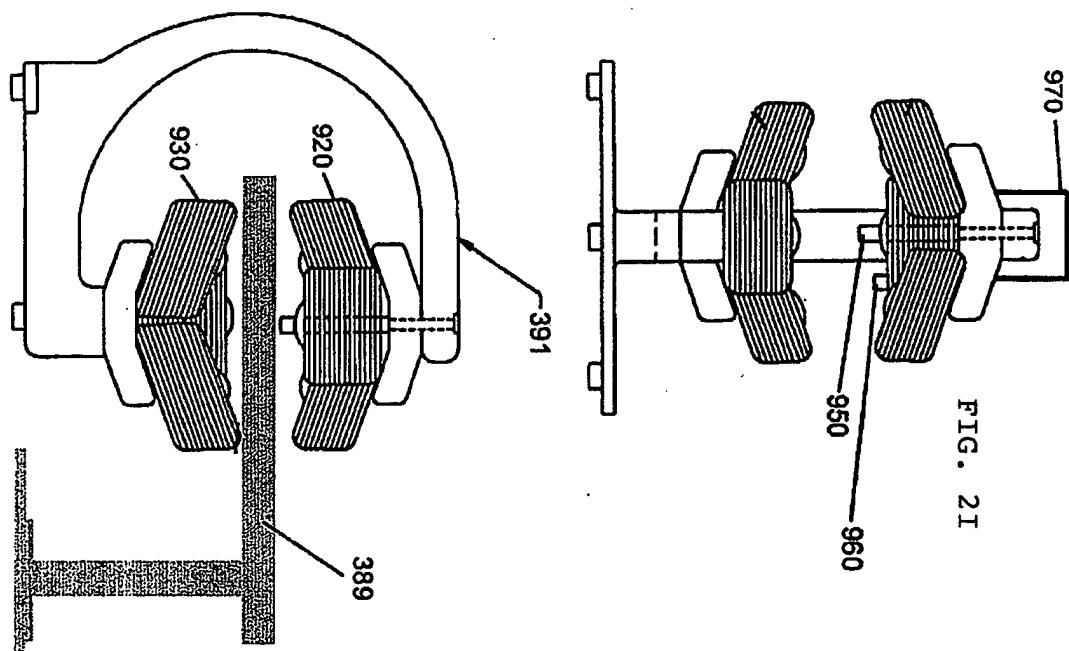


FIG. 2I

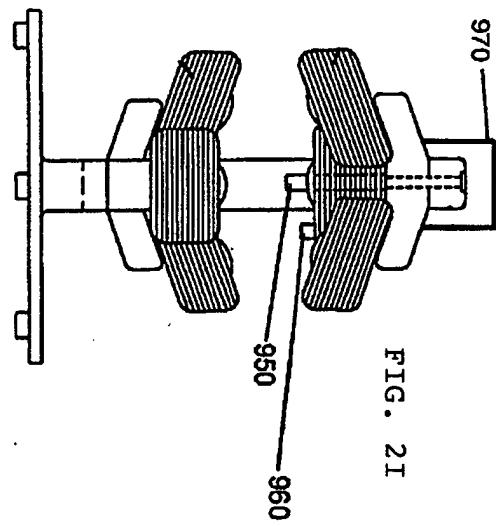
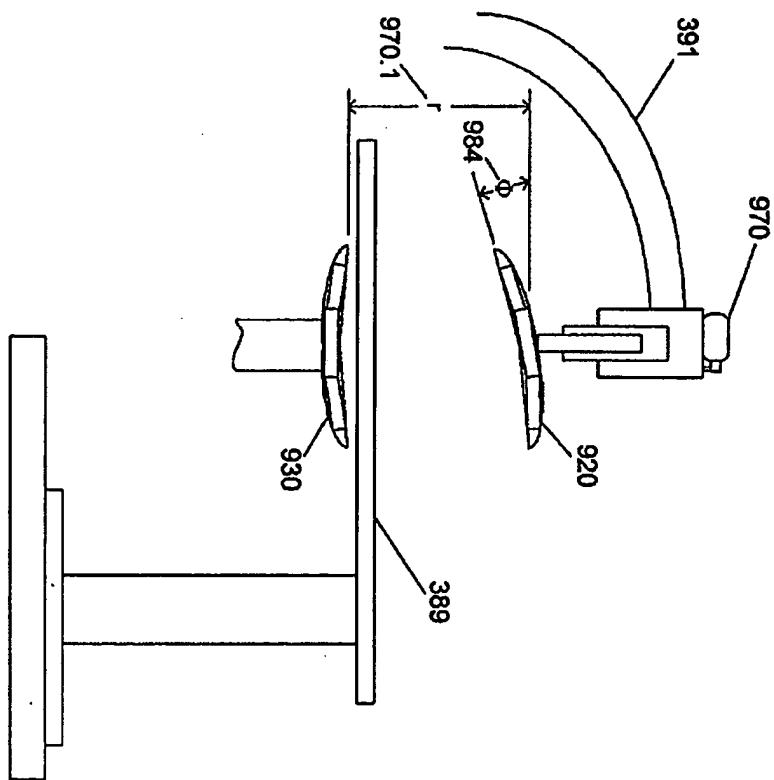


FIG. 2K



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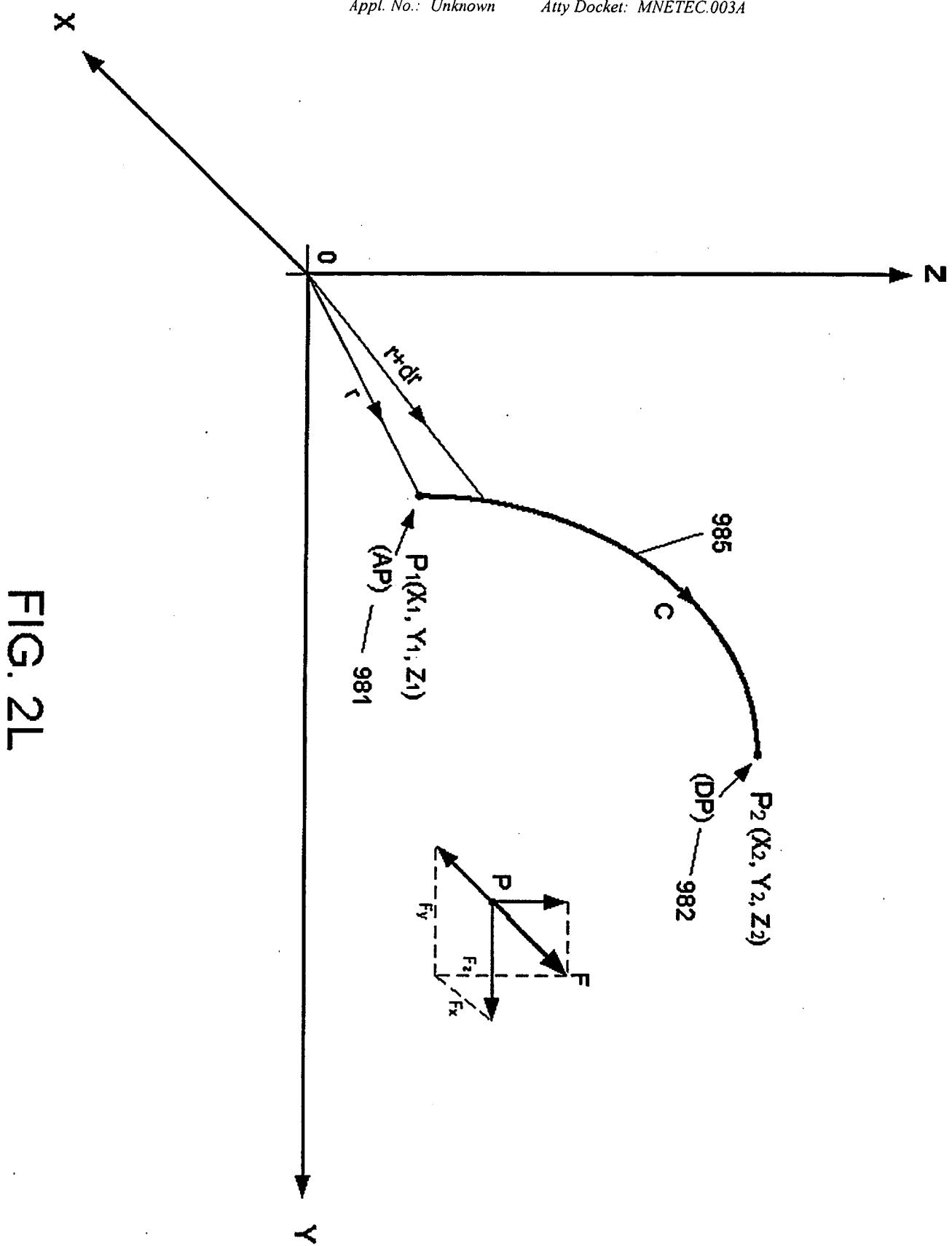


FIG. 2L

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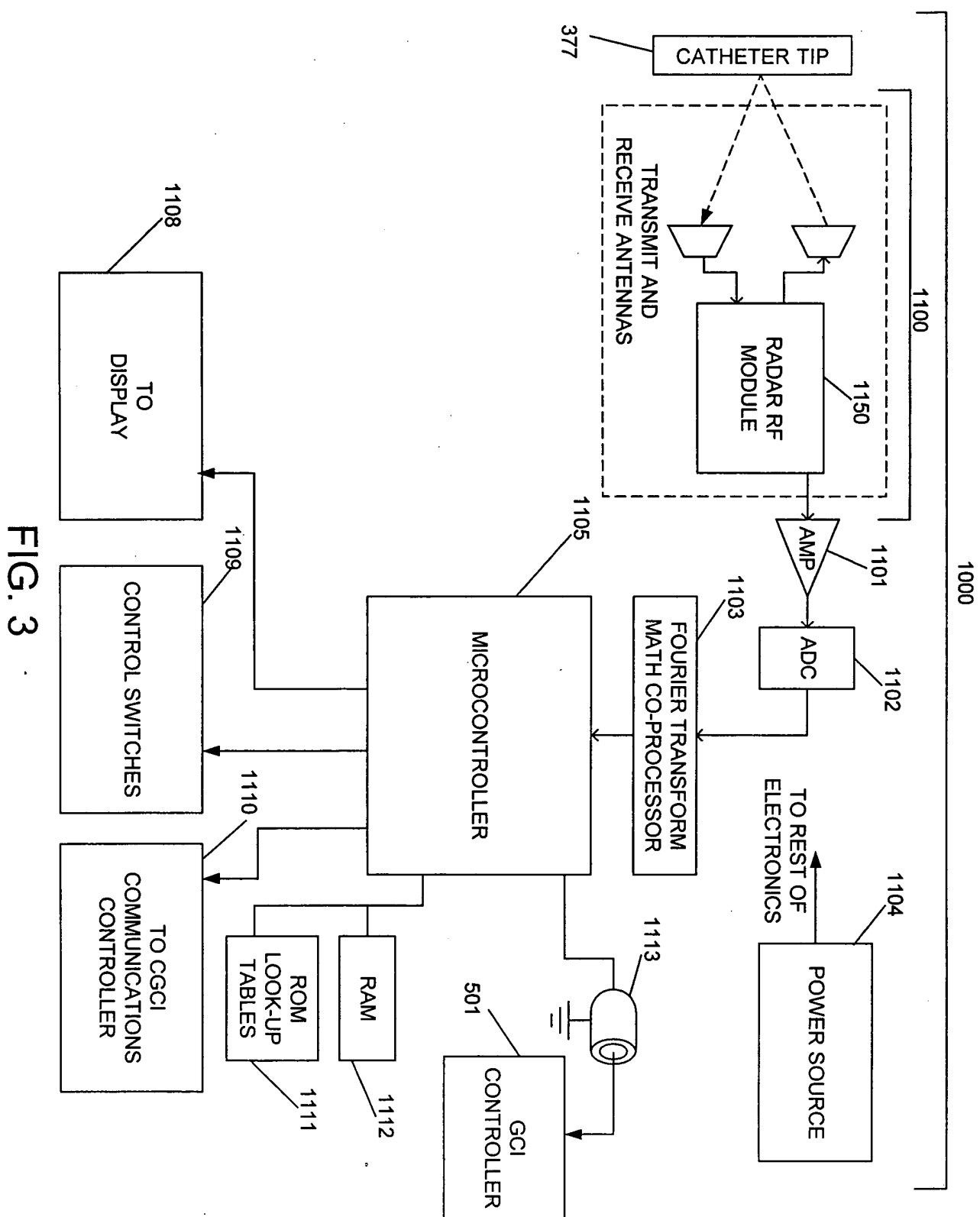


FIG. 3

SYSTEM AND METHOD FOR RADAR-ASSISTED CATHETER  
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Fig. 3A

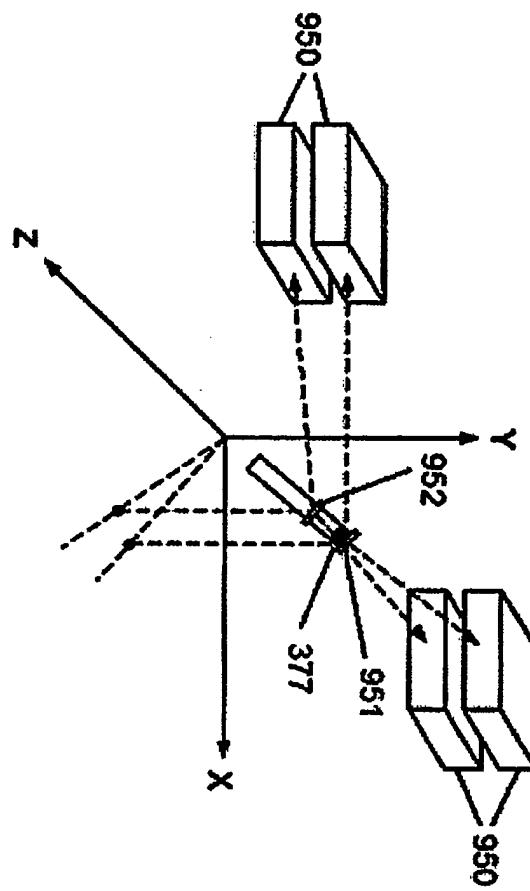
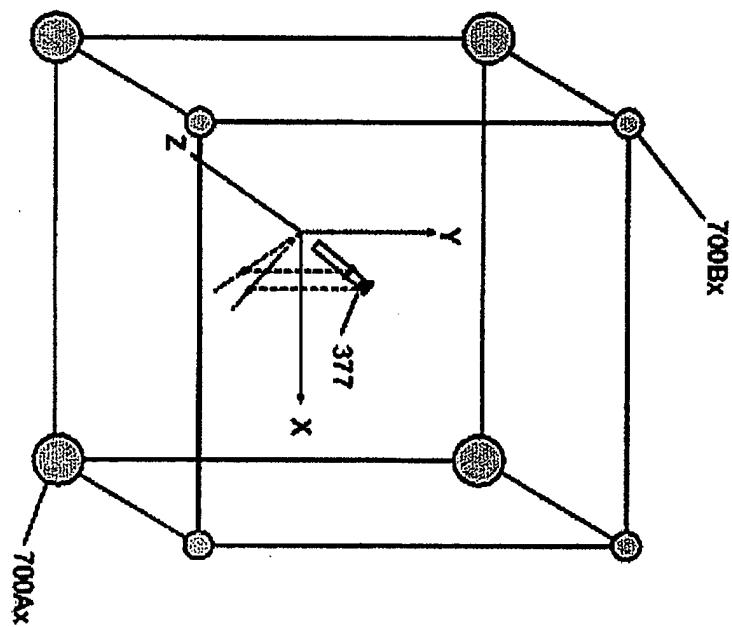


Fig. 3B



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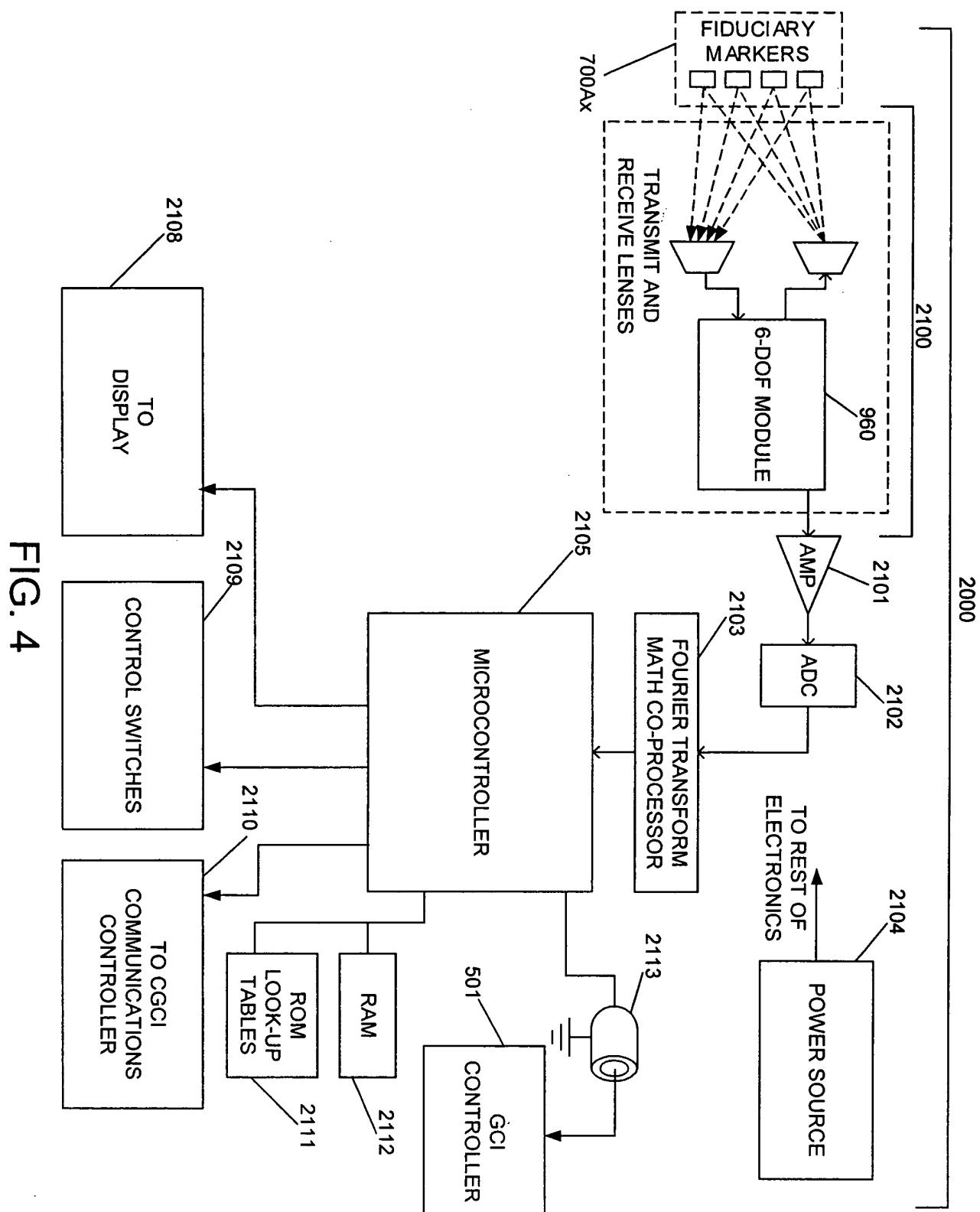


FIG. 4

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FIG. 5

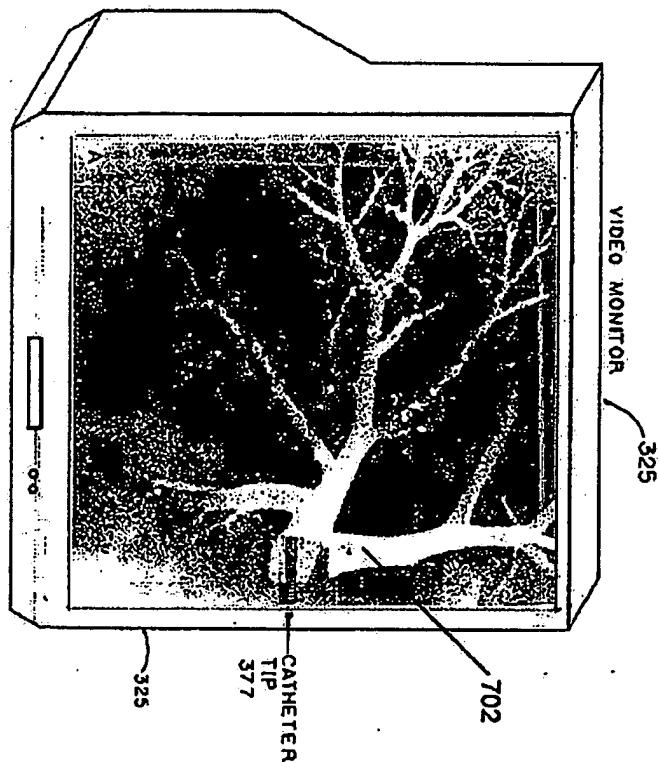
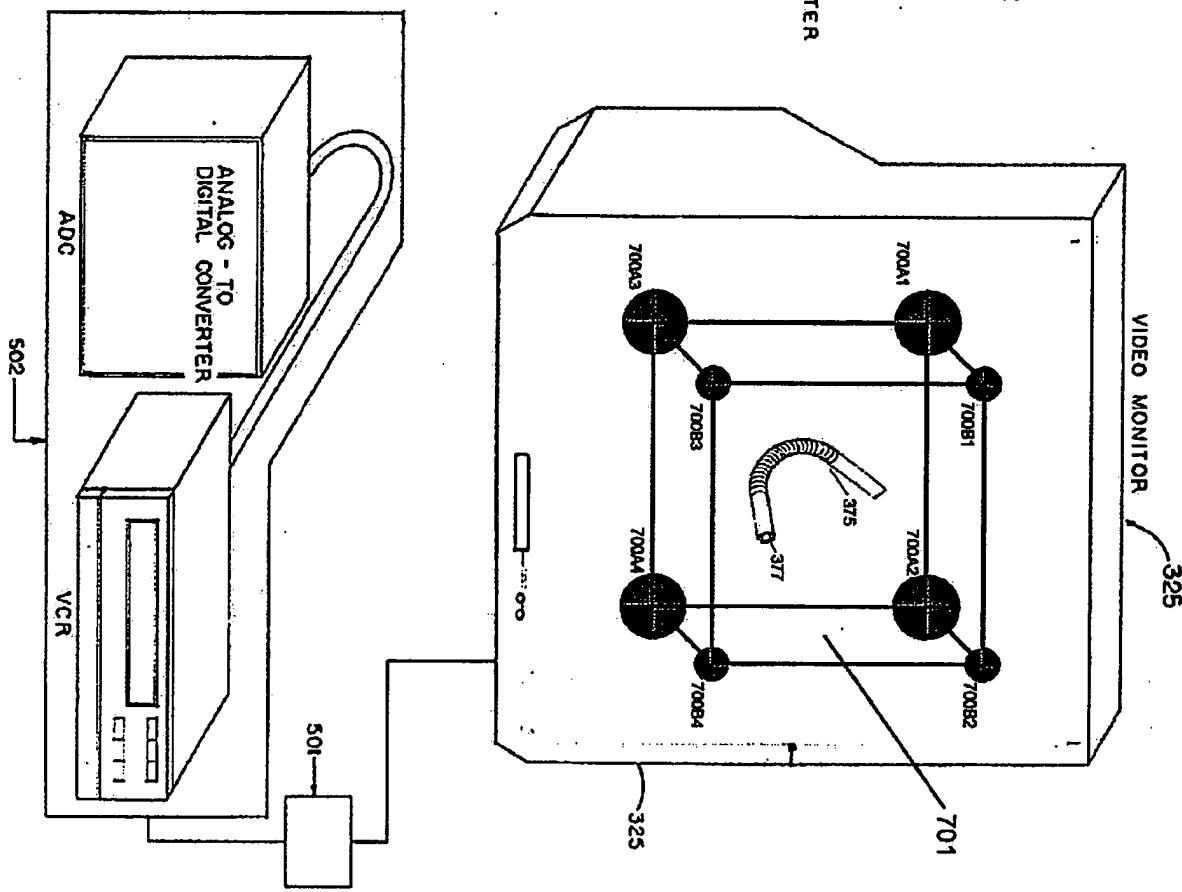


FIG. 5A



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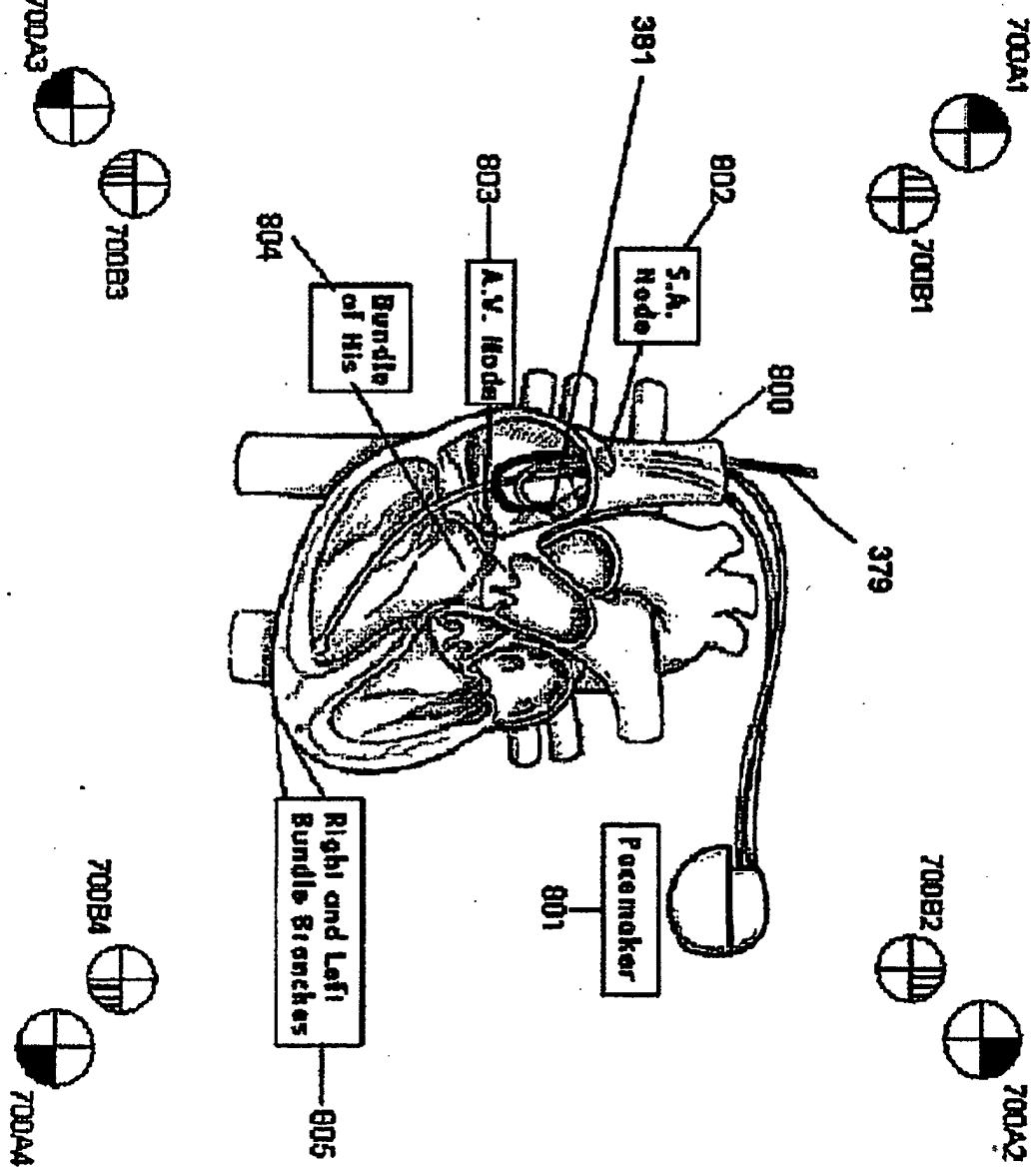


FIG. 5B

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FIG. 6

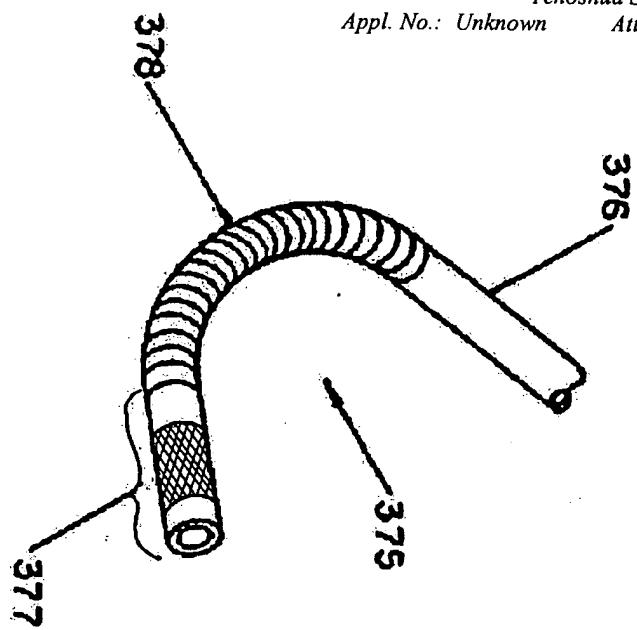


FIG. 6A

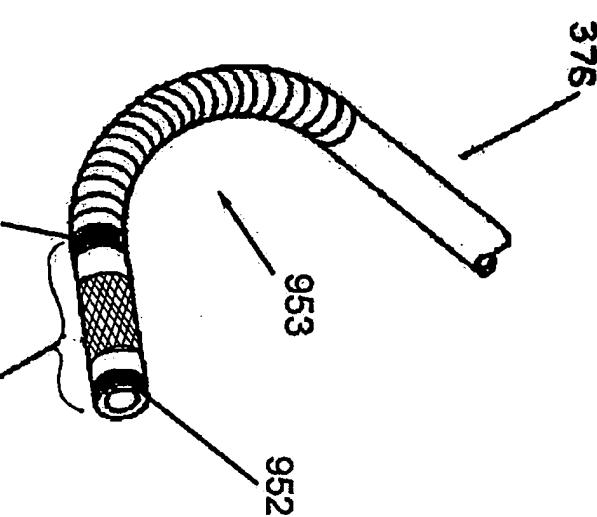
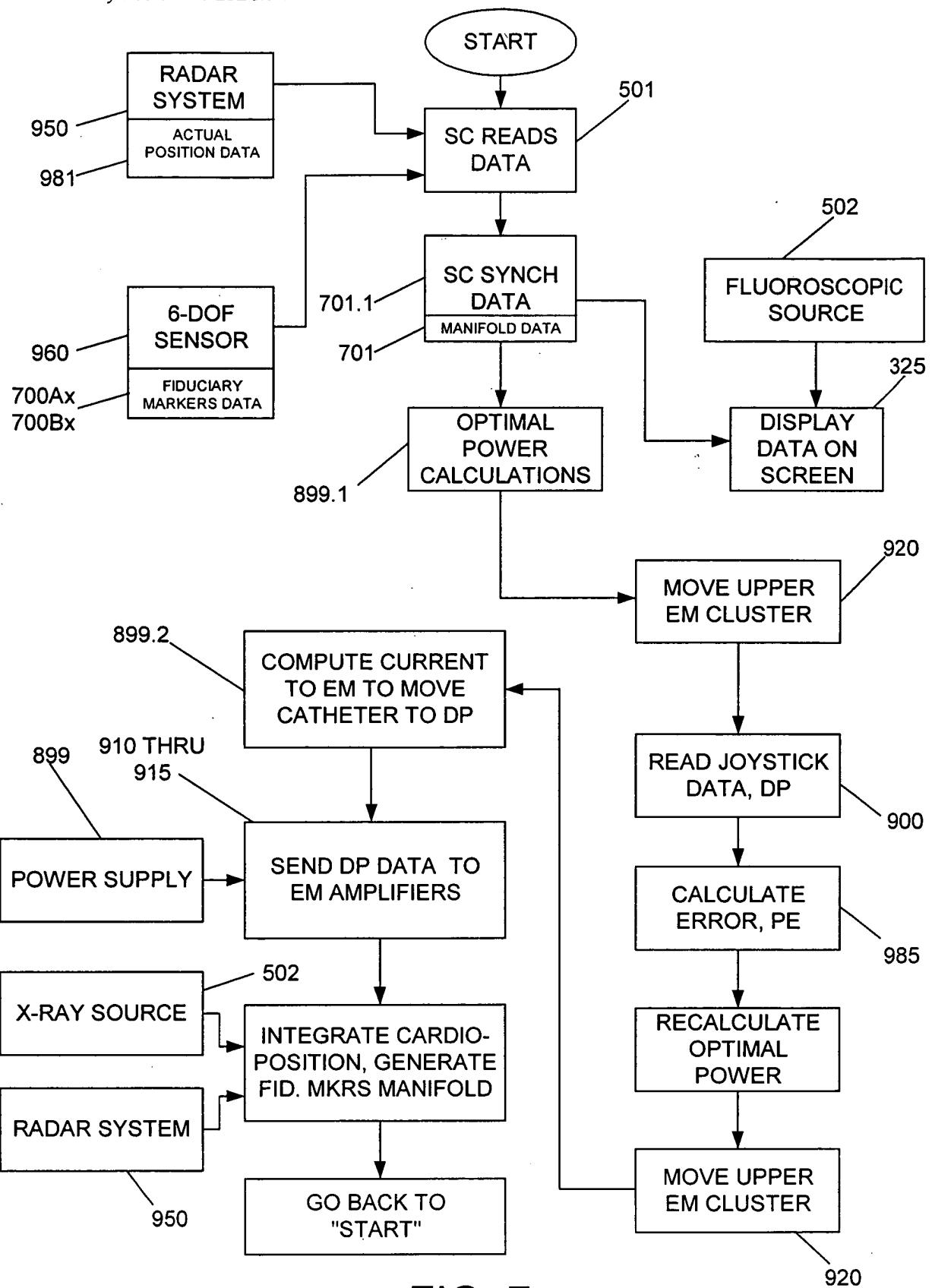


FIG. 6B

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**FIG. 7**

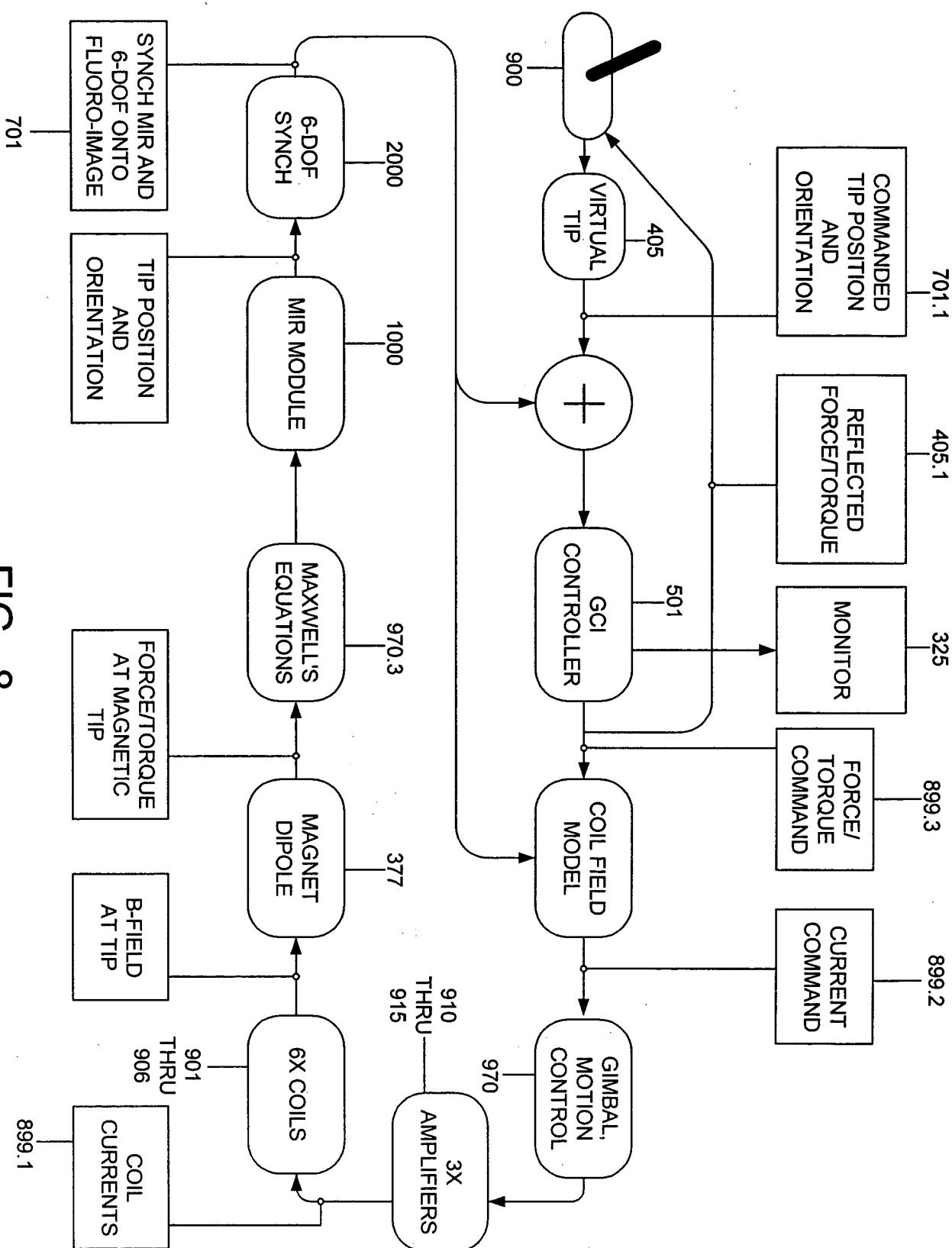


FIG. 8

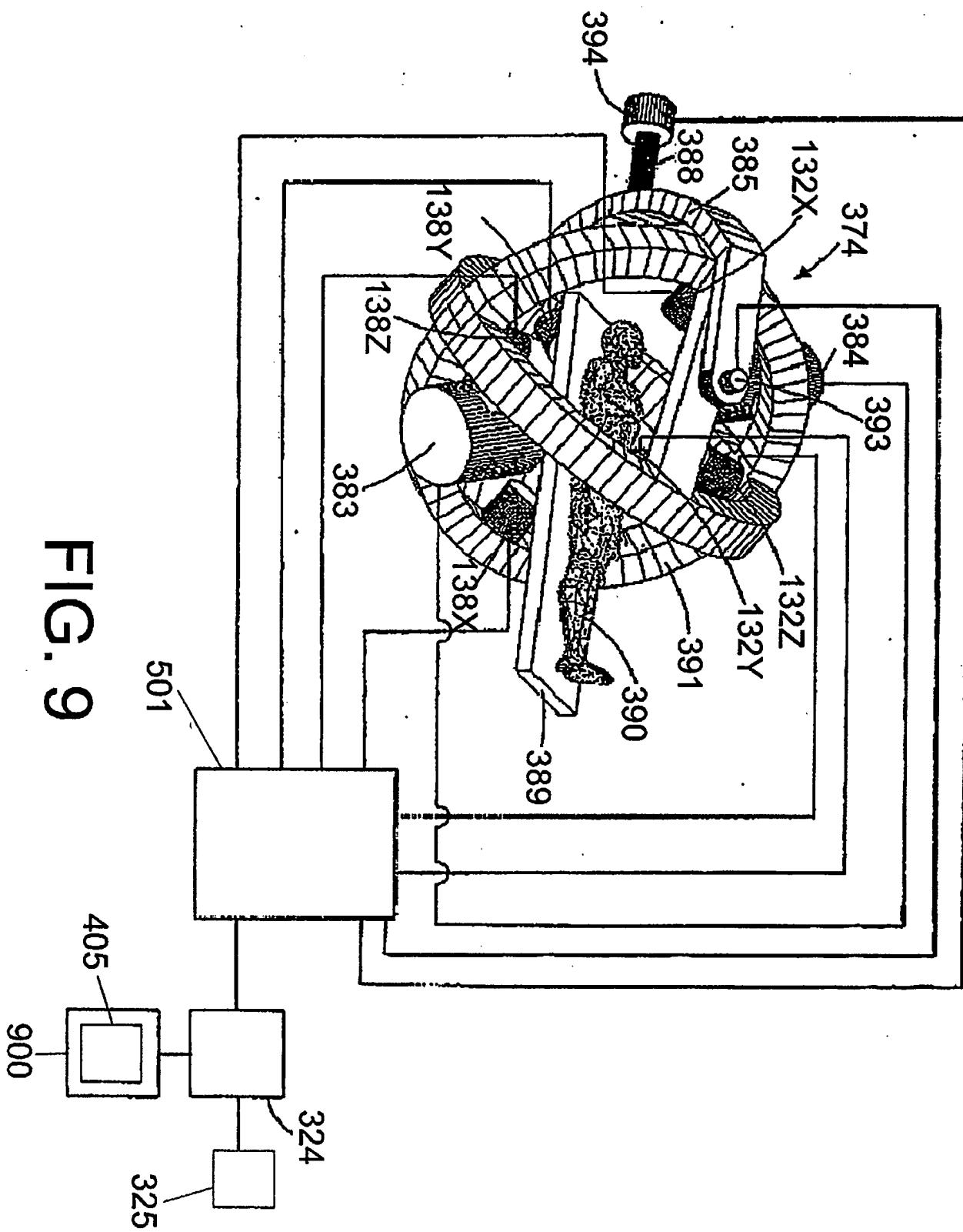


FIG. 9

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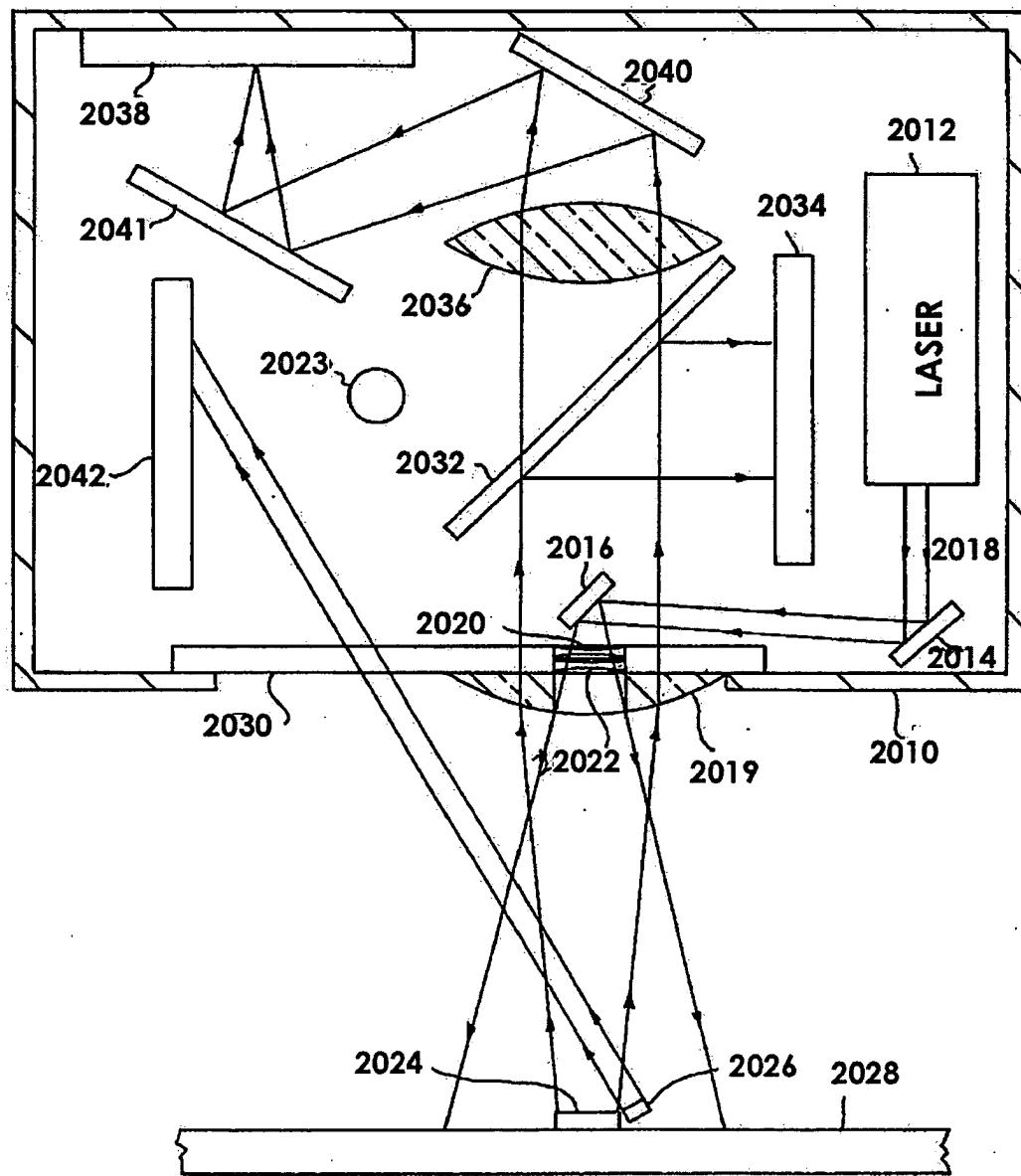


FIG. 10

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FIG. 11

